

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims**

1. (Previously Presented) A method for providing user location information for a personal information management program, comprising:

generating position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;

processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated; and

generating information on the determined predefined activity for the activity time period.

2. (Previously Presented) The method of claim 1, wherein the position coordinates and time information are generated at the wireless device, further comprising:

receiving from the wireless device the generated position coordinates and time information to a server; and

storing the generated position coordinates and time information in a database, wherein the position coordinates and time information are processed to determine the predefined activity during the activity time period and locations and associated time periods where the user was present.

3. (Currently Amended) The method of claim 1, wherein the position coordinates and time information are generated at the wireless device, wherein the wireless device processes the position coordinates and time information to determine locations and associated time periods where the user was present, further comprising:

[[with]] receiving from the wireless device the determined locations and associated time periods;

storing the determined locations and time periods in a database.

4. (Previously Presented) The method of claim 1, further comprising:  
providing a plurality of location boundaries defining multiple location coordinates;  
for each location boundary, providing a location description including information describing the location boundary;  
for each generated position coordinate, determining whether the position coordinate is included in one of the provided location boundaries; and  
processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.
5. (Canceled)
6. (Original) The method of claim 4, wherein at least one location boundary and associated location description is provided by:  
receiving location boundary and location description information from a transmitter.
7. (Previously Presented) The method of claim 6, further comprising:  
associating, with the wireless device, the location description information with the generated position coordinates within the location boundary received from the transmitter; and  
receiving from the wireless device the position coordinates, associated time information, and associated location description wherein the position coordinates and time information are processed to determine location boundaries including the position coordinates, and wherein the information generated on the locations includes the location description provided by the transmitter for the location boundary comprising the location.

8. (Previously Presented) The method of claim 1, wherein position coordinates and time information are generated by multiple wireless devices, wherein each wireless device is associated with one user, further comprising:

receiving position coordinates and time information from the multiple wireless devices;  
and

storing the position coordinates and time information in a database with information associating each position coordinate and time information with one user, wherein the position coordinates and time information are processed for the multiple wireless devices to determine predefined activities for the wireless devices.

9. (Canceled)

10. (Canceled)

11. (Previously Presented) The method of claim 1, further comprising:  
receiving a request for information on the user for a selected time interval;  
determining one predefined activity occurring during the selected time interval; and  
generating information on the predefined activity during the selected time interval.

12. (Original) The method of claim 11, further comprising:  
transmitting the generated information to an initiator of the request for information to enable the initiator to display the location information and time periods where the user of the wireless device was located for the time interval.

13. (Original) The method of claim 12, wherein the initiator requesting the information comprises a program installed on a computer, and wherein the generated information is transmitted over the Internet to the computer.

14. (Original) The method of claim 12, wherein the initiator requesting the information is the wireless device, and wherein the wireless device displays the generated information for the requested time interval.

15. (Previously Presented) The method of claim 12, further comprising:  
determining scheduled events for the user within the time interval; and  
generating information on the scheduled events within the time interval to enable the initiator to display information on the scheduled events along with the predefined activity occurring during the selected time interval.

16. (Original) The method of claim 1, wherein each position coordinate is expressed as an x, y, z coordinate.

17. (Canceled)

18. (Previously Presented) A method for generating a calendar for a personal information management program, comprising:  
receiving selection of a time interval;  
for the selected time interval, determining position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;  
processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval;  
generating information on the predefined activity within the selected time interval; and  
displaying information on the predefined activity of the user and the selected time interval.

19. (Previously Presented) The method of claim 18, further comprising:  
determining scheduled events for the user within the selected time interval; and  
displaying information on the scheduled events within the selected time interval adjacent to the displayed information on the determined predefined activity where the user was located for the selected time interval.

20. (Canceled)

21. (Canceled)

22. (Original) The method of claim 18, wherein the information is displayed in a calendar Graphical User Interface (GUI).

23. (Previously Presented) A system adapted to communicate with a wireless device and for providing user location information for a personal information management program, comprising:

means for generating position coordinates of the wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;

means for processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated; and

means for generating information on the determined predefined activity for the activity time period.

24. (Previously Presented) The system of claim 23, wherein the position coordinates and time information are generated at the wireless device, further comprising:

means for receiving the generated position coordinates and time information from the wireless device; and

means for storing the generated position coordinates and time information in a database, wherein the position coordinates and time information are processed to determine the predefined activity during the activity time period and locations and associated time periods where the user was present.

25. (Previously Presented) The system of claim 23, wherein the position coordinates and time information are generated at the wireless device, wherein the wireless device includes

the means for processing the position coordinates and time information to determine locations and associated time periods where the user was present, further comprising:

means for transmitting receiving from the wireless device the determined locations and associated time periods; and

means for storing the determined locations and time periods in a database.

26. (Previously Presented) The system of claim 23, further comprising:

means for providing a plurality of location boundaries defining multiple location coordinates;

means for providing, for each location boundary, a location description including information describing the location boundary;

means for determining, for each generated position coordinate, whether the position coordinate is included in one of the provided location boundaries; and

means for processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.

27. (Canceled)

28. (Original) The system of claim 26, wherein the means for providing the location boundaries and associated location descriptions performs:

receiving location boundary and location description information from a transmitter.

29. (Currently Amended) The system of claim 28, wherein the wireless device associates the location description information with the generated position coordinates within the location boundary received from the transmitter; and

means for receiving from the wireless device the position coordinates, associated time information, and associated location description; and

means for processing the position coordinates and time information to determine location boundaries including the position coordinates, and wherein the information generated on the locations includes the location description provided by the transmitter for the location boundary comprising the location.

30. (Previously Presented) The system of claim 23, wherein position coordinates and time information are generated by multiple wireless devices, wherein each wireless device is associated with one user, further comprising:

means for receiving position coordinates and time information from the multiple wireless devices; and

means for storing the position coordinates and time information in a database with information associating each position coordinate and time information with one user, wherein the position coordinates and time information are processed for the multiple wireless devices to determine predefined activities for the wireless devices.

31. (Canceled)

32. (Canceled)

33. (Currently Amended) The system of claim 23, further comprising:

means for receiving a request for information on the user for a selected time interval;

means for determining one predefined activity [[occurring]] occurring during the selected time interval; and

means for generating information on the predefined activity during the selected time interval.

34. (Original) The system of claim 33, further comprising:  
means for transmitting the generated information to an initiator of the request for information to enable the initiator to display the location information and time periods where the user of the wireless device was located for the time interval.

35. (Original) The system of claim 34, wherein the initiator requesting the information comprises a program installed on a computer, and wherein the generated information is transmitted over the Internet to the computer.

36. (Original) The system of claim 34, wherein the initiator requesting the information is the wireless device, and wherein the wireless device displays the generated information for the requested time interval.

37. (Currently Amended) The [[method]] system of claim 34, further comprising:  
means for determining scheduled events for the user within the time interval; and  
means for generating information on the scheduled events within the time interval to enable the initiator to display information on the scheduled events along with the predefined activity occurring during the selected time interval.

38. (Original) The system of claim 23, wherein each position coordinate is expressed as an x, y, z coordinate.

39. (Canceled)

40. (Previously Presented) A system for generating a calendar for a personal information management program, comprising:  
means for receiving selection of a time interval;  
means for determining, for the selected time interval, position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;



means for processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval;

means for generating information on the predefined activity within the selected time interval; and

means for displaying information on the predefined activity of the user and the selected time interval.

41. (Previously Presented) The system of claim 40, further comprising:

means for determining scheduled events for the user within the selected time interval; and

means for displaying information on the scheduled events within the time interval

adjacent to the displayed information on the determined predefined activity where the user was located for the selected time interval.

42. (Canceled)

43. (Canceled)

44. (Original) The system of claim 40, wherein the information is displayed in a calendar Graphical User Interface (GUI).

45. (Currently Amended) An article of manufacture comprising a computer readable storage medium including code executed for providing user location information for a personal information management program and adapted to communicate with a wireless device associated with a user, wherein the executed code is capable of causing operations to be performed, the operations comprising:

generating position coordinates of the wireless device and time information indicating times when the position coordinates were generated;

processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring

during an activity time period during which the position coordinates and the time information were generated; and

generating information on the determined predefined activity for the activity time period.

46. (Previously Presented) The article of manufacture of claim 45, wherein the position coordinates and time information are generated at the wireless device, wherein the operations further comprise:

receiving the generated position coordinates and time information; and

storing the generated position coordinates and time information in a database, wherein the position coordinates and time information are processed to determine the predefined activity during the activity time period and locations and associated time periods where the user was present.

47. (Previously Presented) The article of manufacture of claim 45, wherein the position coordinates and time information are generated at the wireless device, wherein the wireless device processes the position coordinates and time information to determine locations and associated time periods where the user was present, wherein the operations further comprise:

receiving from the wireless device the determined locations and associated time periods;

storing the determined locations and time periods in a database.

48. (Previously Presented) The article of manufacture of claim 45, wherein the operations further comprise:

providing a plurality of location boundaries defining multiple location coordinates;

for each location boundary, providing a location description including information describing the location boundary;

for each generated position coordinate, determining whether the position coordinate is included in one of the provided location boundaries; and

processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the

determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.

49. (Canceled)

50. (Original) The article of manufacture of claim 48, wherein at least one location boundary and associated location description is provided by:

receiving location boundary and location description information from a transmitter.

51. (Previously Presented) The article of manufacture of claim 50, wherein the operations further comprise:

associating, with the wireless device, the location description information with the generated position coordinates within the location boundary received from the transmitter; and

receiving from the wireless device, the position coordinates, associated time information, and associated location description, wherein the position coordinates and time information are processed to determine location boundaries including the position coordinates, and wherein the information generated on the locations includes the location description provided by the transmitter for the location boundary comprising the location.

52. (Previously Presented) The article of manufacture of claim 45, wherein position coordinates and time information are generated by multiple wireless devices, wherein each wireless device is associated with one user, wherein the operations further comprise:

receiving position coordinates and time information from the multiple wireless devices; and

storing the position coordinates and time information in a database with information associating each position coordinate and time information with one user, wherein the position coordinates and time information are processed for the multiple wireless devices to determine predefined activities for the wireless devices.

53. (Canceled)

54. (Canceled)

55. (Previously Presented) The article of manufacture of claim 45, wherein the operations further comprise:

receiving a request for information on the user for a selected time interval;  
determining one predefined activity occurring during the selected time interval; and  
generating information on the predefined activity during the selected time interval.

56. (Previously Presented) The article of manufacture of claim 55, wherein the operations further comprise:

transmitting the generated information to an initiator of the request for information to enable the initiator to display the location information and time periods where the user of the wireless device was located for the time interval.

57. (Original) The article of manufacture of claim 56, wherein the initiator requesting the information comprises a program installed on a computer, and wherein the generated information is transmitted over the Internet to the computer.

58. (Original) The article of manufacture of claim 56, wherein the initiator requesting the information is the wireless device, and wherein the wireless device displays the generated information for the requested time interval.

59. (Previously Presented) The article of manufacture of claim 56, wherein the operations further comprise:

determining scheduled events for the user within the time interval; and  
generating information on the scheduled events within the time interval to enable the initiator to display information on the scheduled events along with the predefined activity occurring during the selected time interval.

60. (Original) The article of manufacture of claim 45, wherein each position coordinate is expressed as an x, y, z coordinate.

61. (Canceled)

62. (Currently Amended) An article of manufacture comprising a computer readable storage medium including code executed for generating a calendar for a personal information management program and adapted to communicate with a wireless device associated with a user, wherein the executed code is capable of causing operations to be performed, the operations comprising:

receiving selection of a time interval;

for the selected time interval, determining position coordinates of a wireless device and time information indicating times when the position coordinates were generated;

processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval;

generating information on the predefined activity within the selected time interval; and

displaying information on the predefined activity of the user and the selected time interval.

63. (Previously Presented) The article of manufacture of claim 62, wherein the operations further comprise:

determining scheduled events for the user within the selected time interval; and

displaying information on the scheduled events within the time interval adjacent to the displayed information on the determined predefined activity where the user was located for the selected time interval.

64. (Canceled)

65. (Canceled)

66. (Original) The article of manufacture of claim 62, wherein the information is displayed in a calendar Graphical User Interface (GUI).

67. (Previously Presented) A computer readable medium for providing user location information for a personal information management program of a user at a wireless device, wherein the computer readable medium includes at least one computer readable data structure comprising:

position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;

a predefined activity of the user occurring during an activity time period determined by processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates the predefined activity during which the position coordinates and the time information were generated; and

information on the determined predefined activity for the activity time period.

68. (Previously Presented) The computer readable medium of claim 67, further comprising:

a plurality of location boundaries defining multiple location coordinates, wherein each location boundary includes a location description including information describing the location boundary, wherein for each generated position coordinate, a determination is made as to whether the position coordinate is included in one of the provided location boundaries;

information on locations and associated time periods determined by processing the position coordinates and the time information, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one

location includes the location description for the predefined location boundary comprising the location.

69. (Canceled)

70. (Canceled)

71. (Canceled)

72. (Canceled)

73. (Previously Presented) The method of claim 1, further comprising:  
determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

74. (Previously Presented) The method of claim 73, further comprising:  
generating a record associating the determined locations with the determined predefined activity.

75. (Previously Presented) The method of claim 73, wherein determining the locations of the wireless device during the activity time period comprises determining the position coordinates at a first and last geographical locations of the wireless device at a first and last time periods of the activity time period.

76. (Previously Presented) The method of claim 73, wherein determining the predefined activity comprises determining a rate of change in distance per unit of time of the position coordinates during the activity time period.

77. (Previously Presented) The method of claim 1, wherein the predefined activity is a member of a set of predefined activities comprising at least one of driving, walking, running, bicycle riding, and flying in an airplane.

78. (Previously Presented) The method of claim 4, wherein the operations of processing the position coordinates and associated time periods to determine the predefined activity is performed for ranges of position coordinates not determined to be included in one of the provided location boundaries.

79. (Previously Presented) The method of claim 18, further comprising:  
determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

80. (Previously Presented) The system of claim 23, further comprising:  
means for determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

81. (Currently Amended) The system of claim 80, further comprising:  
[[Means]] means for generating a record associating the determined locations with the determined predefined activity.

82. (Previously Presented) The system of claim 80, wherein determining the locations of the wireless device during the activity time period comprises determining the position coordinates at a first and last geographical locations of the wireless device at a first and last time periods of the activity time period.



83. (Currently Amended) The system of claim [[73]] 80, wherein determining the predefined activity comprises determining a rate of change in distance per unit of time of the position coordinates during the activity time period.

84. (Previously Presented) The system of claim 23, wherein the predefined activity is a member of a set of predefined activities comprising at least one of driving, walking, running, bicycle riding, and flying in an airplane.

85. (Previously Presented) The system of claim 26, wherein the operations of processing the position coordinates and associated time periods to determine the predefined activity is performed for ranges of position coordinates not determined to be included in one of the provided location boundaries.

86. (Previously Presented) The system of claim 40, further comprising:  
means for determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

87. (Previously Presented) The article of manufacture of claim 45, wherein the operations further comprise:  
determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

88. (Previously Presented) The article of manufacture of claim 87, wherein the operations further comprise:  
generating a record associating the determined locations with the determined predefined activity.

89. (Previously Presented) The article of manufacture of claim 87, wherein determining the locations of the wireless device during the activity time period comprises determining the position coordinates at a first and last geographical locations of the wireless device at a first and last time periods of the activity time period.

90. (Previously Presented) The article of manufacture of claim 87, wherein determining the predefined activity comprises determining a rate of change in distance per unit of time of the position coordinates during the activity time period.

91. (Previously Presented) The article of manufacture of claim 45, wherein the predefined activity is a member of a set of predefined activities comprising at least one of driving, walking, running, bicycle riding, and flying in an airplane.

92. (Previously Presented) The article of manufacture of claim 48, wherein the operations of processing the position coordinates and associated time periods to determine the predefined activity is performed for ranges of position coordinates not determined to be included in one of the provided location boundaries.

93. (Previously Presented) The article of manufacture of claim 62, further comprising:

determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

94. (Previously Presented) A system comprising:

a wireless device associated with a user;

a server;

code executed by the wireless device that is adapted to generate position coordinates of the wireless device and time information indicating times when the position coordinates were generated;

code executed by the server that is adapted to:

process the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated; and

generate information on the determined predefined activity for the activity time period.

95. (Previously Presented) The system of claim 94, wherein the code executed by the server is further adapted to determine locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.